

CLAIMS

*Subj* 1) A method of regenerating a filter of a diesel exhaust particulate filter system, said method comprising as steps :  
5 a) providing a porous membrane ;  
b) using said membrane as filter during a filtration period ;  
c) using said membrane as a surface combustion burner membrane during a regeneration period following said filtration period.

10 2) A method of regenerating a diesel exhaust particulate filter system  
a) providing at least two porous membranes ;  
b) using at least one of said membranes as filter during a filtration period ;  
15 c) using at least one of the remaining membranes as a surface combustion burner membrane during a regeneration period which overlaps with said filtration period.

20 3) A method according to claim 1 or 2, wherein said membrane is a stainless steel fiber web.

25 4) A method according to any of the preceding claims, said method comprising the step of providing fuel to said membrane during the regeneration period.

5) A method according to claim 4 wherein said fluid fuel is diesel.

30 6) A method according to any of the preceding claims, said method further comprising the step of :  
- monitoring the pressure across said membrane during the filtration period.

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7. A method according to claim 6, said method further comprising the step of :

- generating a control signal to regenerate said membrane, once the pressure across said membrane exceeds a predetermined level.

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8. A method according to claim 4 wherein during said regeneration period the amount of fuel provided is reduced after initiation of a flame at said porous membranes.

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